REMARKS

Claims 1-18 are pending in this application. Claims 1, 7, 13 and 18 have been amended by the present Amendment. Amended claims 1, 7, 13 and 18 do not introduce any new subject matter.

REJECTION UNDER 35 U.SC. § 103

Reconsideration respectfully requested of the rejection of claims 1-18 under 35 U.S.C. § 103(a) as being unpatentable over applicant's admitted prior art (APA) in view of U.S. Patent Application Pub. No. 2003/0177293 ("Bilak").

Claims 1, 7, 13 and 18, as amended, require that increasing the memory allocation of the transmitting and receiving areas is triggered by a receipt of transmitted data and received data.

Embodiments of the present invention relate to controlling memory allocation based on receipt of data. For example, the receipt of data causes a transmission and reception execution signals (TXEX, RXEX) to become active. As a result of the transmission and reception execution signals becoming active, a flow control unit 220 generates and outputs threshold control signals (THS) to increase memory allocation of a transmitting area or a receiving area.

For example, the receipt of data SYSTD by the transmitting controller 230 triggers activity of the transmission execution signal (TXEX), which in turn triggers the threshold control signal (THS) to be transmitted to the transmitting controller 230, resulting in an instruction to increase memory allocation of a transmitting area of a buffer memory 210. The receipt of data PHYRD by the receiving controller 240 triggers activity of the reception execution signal (RXEX), which in turn triggers the threshold

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control signal (THS) to be transmitted to the receiving controller 240, resulting in an instruction to increase memory allocation of a receiving area of the buffer memory 210. See, e.g., Applicants' disclosure, Fig. 2; page 7, line 27 – page 8, line 31; page 9, lines 20-23; and page 10, lines 1-4.

As recited in the claimed embodiments, the increase in memory allocation is is triggered by a receipt of transmitted data (*e.g.*, SYSTD) and received data (*e.g.*, PHYRD).

In contrast to the claimed embodiments, the altering of memory allocation in Bilak is triggered by the capacity of the buffer. Unlike the claimed embodiments, Bilak discloses querying whether a buffer has enough space for a frame. See Bilak, Figs. 3 and 5, (elements 350 and 640). If it is determined that there is insufficient space in the dedicated buffer and there is sufficient space in the other buffer to accommodate the frame, then reallocation is performed. See Bilak, ¶¶ 0033 and 0037.

Moreover, the Examiner also states that if a respective buffer is determined to not have enough space, then that buffer is allocated more space from the other buffer. See May 15, 2007 Office Action at 3.

Accordingly, unlike the claimed embodiments, Bilak teaches that an instruction to increase allocation is triggered by buffer capacity.

As such, for at least this reason, Applicants respectfully submit that claims 1, 7, 13 and 18 are patentable over the APA in view of Bilak.

For at least the reason that claims 2-6 depend from claim 1, claims 8-12 depend from claim 7, and claims 14-17 depend from claim 13, claims 2-6, 8-12, and 14-17 are also submitted to be patentable over the cited references.

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Therefore, Applicants respectfully request that the Examiner withdraw the rejection of claims 1-18 under 35 U.S.C. § 103(a).

DEPENDENT CLAIMS

Applicants have not independently addressed the rejections of all the dependent claims because Applicants submit that, in view of the amendments to the claims presented herein and, for at least similar reasons as why the independent claims from which the dependent claims depend are believed allowable as discussed, supra, the dependent claims are also allowable. Applicants however, reserve the right to address any individual rejections of the dependent claims should such be necessary or appropriate.

An early and favorable reconsideration is earnestly solicited. If the Examiner has any further questions or comments, the Examiner may telephone Applicants' Attorney to reach a prompt disposition of this application.

Respectfully submitted,

Michael F. Morano
Reg. No. 44,952
Attorney for Applicants

F. CHAU & ASSOCIATES, LLC
130 Woodbury Road
Woodbury, NY 11797
(516) 692-8888